

### **REMARKS**

This is a full and timely response to the Office Action mailed April 14, 2008.

By this Amendment, claim 19 has been amended to incorporate the subject matter of allowable claim 21. Further, new claims 28-30 have been added to further protect broader embodiments of the allowable claimed subject matter. Namely, new claims 28-30 have been added to eliminate the claimed element of the "*A/D conversion circuit*" which Applicant believes is not essential to the allowable subject matter of the present invention. More specifically, new claims 28-30 has been added to cover the embodiments of Figures 19 and 26. Thus, in view of the amendments to claim 19, claims 20-27 have been canceled without prejudice or disclaimer to their underlying subject matter. Also, claim 1 has been canceled without prejudice or disclaimer to its underlying subject matter to minimize additional claim fees. Thus, claims 2-19 and 28-30 are currently pending in this application with non-elected claims 2-18 being withdrawn. Support for the claim amendments can be readily found variously throughout the specification and the original claims.

In view of these amendments, Applicant believes that all pending claims are in condition for allowance. Reexamination and reconsideration in light of the above amendments and the following remarks is respectfully requested.

### **Objection to the Abstract**

The Examiner has objected to the abstract for allegedly failing to conform to proper form. Applicant has amended the abstract to put it in proper form in accordance with the requirements of MPEP §608.01(b). More specifically, Applicant has amended the first sentence of the abstract to --*The present invention is directed to a A-displacement detector-is provided, which can compensate a change in temperature coefficient of impedance of a coil to a displacement of a core.*-- Thus, withdrawal of this objection is respectfully requested.

### **Objection to the Specification**

The specification is objected to for the informalities set forth on the bottom of page 2 of the action. Applicant has amended the specification to address the concerns raised by the Examiner.

More specifically, Applicant has amended the specification in accordance with the Examiner's suggestions. Thus, in view of these amendments to the specification, withdrawal of this objection is respectfully requested.

**Rejection under 35 U.S.C. §102 and §103**

Claims 19, 20, 22 and 27 are rejected under 35 U.S.C. §102(e) as allegedly being anticipated by Townsend et al. (U.S. Patent No. 7,061,229). Further, claims 23-26 are rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over Townsend in view of Niwa (WO 2003/002947). These rejections have been rendered moot by the incorporation of non-rejected and allowable claim 21 into claim 19. Thus, withdrawal of these rejections is respectfully requested.


With regard to new claims 28-30, Applicant believes that these new claims are also allowable since these claims have only eliminated the claimed element of "*A/D conversion circuit*" which Applicant believes is not essential to the allowable subject matter of the present invention (see Figures 19 and 26). Thus, Applicant believes that new claims 28-30 are allowable for the same reasons claim 19 is allowable.

### CONCLUSION

For the foregoing reasons, all the claims now pending in the present application are believed to be clearly patentable over the outstanding rejections. Accordingly, favorable reconsideration of the claims in light of the above remarks is courteously solicited. If the Examiner has any comments or suggestions that could place this application in even better form, the Examiner is requested to telephone the undersigned attorney at the below-listed number.

Dated: July 14, 2008

Respectfully submitted,

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Should additional fees be necessary in connection with the filing of this paper, or if a petition for extension of time is required for timely acceptance of same, the Commissioner is hereby authorized to charge Deposit Account No. 50-4422 for any such fees; and applicant(s) hereby petition for any needed extension of time.